



PREVENT STORM WATER CONTAMINATION

Best Management Practices for

Section Y - Rubber, Plastic Products & Miscellaneous Manufacturing



Major Groups 30 and 39 (except 3910-19)

General Information:

1) Federal and State Storm Water regulations require the City to reduce the quantity of pollutants that enter our storm drains, rivers and washes from rainwater and other sources. 2) Water from any source that contains contaminant's is prohibited from entering the storm drain system which includes streets, catch basins (street grates), ditches, washes and rivers. 3) Commercial and industrial wash or wastewater is prohibited from entering the storm drain system, street or any other outside area. 4) You may request a temporary discharge permit by calling Storm Water Management at 256-3190 prior to discharging. Restrictions apply. 5) All washing activities that use soap, solvents, degreasers or any other chemicals must be hauled to a landfill or discharged into the sanitary sewer through a sand/oil interceptor or approved pretreatment device. 6) City Ordinance requires all commercial and industrial facilities to develop and implement a Storm Water Management Plan (SWMP). 7) See 40CFR122 Section 6.Y.2 October 30, 2000 for additional required BMPs.

Outdoor material storage (including waste & particulate emission management)

- ◆ Confine storage of materials, parts and equipment to designated areas.
- ◆ Consider secondary containment using curbing, berming or diking all liquid storage areas.
- ◆ Train employees in spill prevention and response techniques.
- ◆ Train employees on proper waste control and disposal.
- ◆ Consider covering tanks.
- ◆ Ensure that all containers are closed (e.g. valves shut, lids sealed, caps closed).
- ◆ Wash and rinse containers indoors before storing them outdoors.
- ◆ If outside or in covered areas, minimize run-on of storm water by grading the land to divert flow away from containers.
- ◆ Leak detection and container integrity testing.
- ◆ Direct runoff to on-site retention pond.
- ◆ Inventory all raw and spent materials.
- ◆ Clean around vents and stacks.
- ◆ Place tubs around vents and stacks to collect particulate.
- ◆ Inspect air emission control systems (e.g. baghouses) regularly, and repair or replace when necessary.
- ◆ Store wastes in covered, leak proof containers (e.g. dumpsters, drums).
- ◆ Consider shipping all wastes to offsite landfills or treatment facilities.
- ◆ Ensure hazardous waste disposal practices are performed in accordance with Federal, State and local requirements.

Outdoor unloading and loading

- ◆ Confine loading/unloading activities to a designated area.
- ◆ Consider performing loading/unloading activities indoors or in a covered area.
- ◆ Consider covering loading/unloading area with permanent cover (e.g. roof) or temporary cover (e.g. tarps).
- ◆ Close storm drains during loading/unloading activities in surrounding areas.
- ◆ Avoid loading/unloading materials in the rain.
- ◆ Inspect the unloading/loading areas to detect problems before they occur.
- ◆ Inspect all containers prior to loading/unloading of any raw or spent materials.
- ◆ Consider berming, curbing or diking loading or unloading areas.
- ◆ Dead-end sump where spilled materials could be directed.
- ◆ Drip pans under hoses.
- ◆ Use dry clean-up methods instead of washing the areas down.
- ◆ Train employees on proper loading/unloading techniques, spill prevention and response.

Best Management Practices for Rubber Products Manufacturers

Special BMPs for Zinc sources

A. Housekeeping

- ◆ Use 25 pound bags instead of 50 or 100 pound bags of Zinc.
- ◆ Consider using pre-weighed bags that can be thrown directly into the mixer to reduce spillage.

- ◆ Train employees about how to handle and empty bags.
- ◆ Store bags indoors.
- ◆ Clean up spills without washing down with water.
- ◆ Consider the use of container that can be sealed for opened bags in use. Leave an airspace between the chemical and top so that "puffing" is reduced.
- ◆ Consider the use of automatic dispensing and weighing equipment.

B. Outdoor dumpsters

- ◆ Use dumpsters with lids or covers.
- ◆ Use linked dumpsters that do not leak.
- ◆ Move dumpsters inside.

C. Dust collection

- ◆ Review dust collectors and baghouses.
- ◆ Repair or replace dust collectors and baghouses as needed.
- ◆ Provide regular maintenance of collectors and baghouses.

D. Grinding operations

- ◆ Review dust generating from grinding activities.
- ◆ Provide a dust collection system.

E. Zinc Stearate Coating Operations

- ◆ Develop a plan to prevent spills.
- ◆ Develop a plan to clean up spills using dry clean-up methods.
- ◆ Research and use alternate compounds instead of Zinc.

Special BMPs for plastic products

- ◆ See EPA 842-B-92-010, December 1992 for "Plastic pellets in the Aquatic Environment".

Training

- ◆ All employees should be trained in the following areas at least once per year.
 - ◆ Spill response
 - ◆ Good housekeeping
 - ◆ Material management practices
 - ◆ Procedures for equipment and container washing.

Inspections

- ◆ Conduct routine quarterly storm water inspections and within 24 hours after a rain event.
- ◆ Complete the BMP checklist during each inspection.
- ◆ All structural and non-structural BMPs.
- ◆ All areas exposed to precipitation will be visually inspected for evidence of or the potential for pollutants entering the storm drain system.
- ◆ Structural BMPs (berms and dikes) will be inspected to ensure they are operating correctly.

Storm Water Management Plan (SWMP) or Storm Water Pollution Prevention Plan (SWPPP)

- ◆ Develop and implement a SWMP or SWPPP.
- ◆ All Storm Water Plans (SWMP or SWPPP) must be submitted to the city for approval.
- ◆ SIC codes in this class must submit an industrial Notice of Intent (NOI) to ADEQ.

If spills occur:

- ◆ **Stop the source of the spill immediately.**
- ◆ **Contain the liquid until cleanup is complete.**
- ◆ **Deploy oil containment booms if the spill may reach water or a storm drain.**
- ◆ **Cover the spill with absorbent material.**
- ◆ **Keep the area well ventilated.**
- ◆ **Dispose of clean-up materials properly.**
- ◆ **Do not use an emulsifier or dispersant.**

The BMPs found on this page are paraphrased from Federal Storm Water documents 40CFR122, 1995 or later.

Storm Water



Management
A member of **STORM**
STormwater Outreach for
Regional Municipalities

Only Rain in the Storm Drain!

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City of Phoenix

STREET TRANSPORTATION DEPARTMENT
STORM WATER MANAGEMENT SECTION

Upon request, the Street Transportation Department will make this publication available through appropriate auxiliary aids or services to accommodate an individual with a disability by calling 602-256-3190; or faxing a request to 602-495-2016.